previously been described by the writer; the latter under the wery same name which is now proposed lby Dr. Giinther. A detailed description of Belone Jonesii was published in October, 1875, in the American Journal of Science and Arts.* Dr. Giiuther's description of Belone Joncsii and my own coincide in all essential details, and, furthermore, 1 had the opportunity of seeing Mr.Jones's specimens on the day they were collected and before they were put in spirits. My specimens were collecterl within a few days of the same time, and from the same locality.

Gerves Jonesii, Gthr., is apparently identical with the species described by me in 1874 under the name Diapterus Lefroyi, $t$ and subsequently referred to in the Catalogne of the Fishes of the Bermudastas Eucinostomus Lefroyi.
This species was discovered in Cuban waters at nearly the same time by Prof. Felipe Poey, and was by him named Eucinostomus productus.§

##  

## By 'TARECTCN

The first species of the geans Lycoles known from the North Pacific is in the United States National Museum, where it was sent by Mr. Lucien M. Turner, who took it at St. Michael's, Alaska, Mareh 28, 1876. There is no record of the depth at which it was taken. The single specimen seenred is 330 millimetres ( 13 English inches) in length, and is well preserved. This is one of six species described as scaleless-polaris (Sabine), 18:0), length of type 7 English inches; mucosus, Rich., 1855, types 7 and 11 inches; Rossi, Malmgren, 1864, type 32 millimetres; grucilis, M. Sars, 1866, type 43 millimetres; Sarsii, Collett, 1871, type 44 millimetres, being the other five. I have bronght together polaris, mucosus, Terillii, and Twneri in a table of comparative measurements, so that the relatious of the North American species may be seen at a glance. It is difficult to determine the exact relations of all the species of Lyeotes of the Aretic and Subarctic regions, since nearly half of them were deseribed from small individuals; but, so far as the original descriptions and measurements fomish a guide, L. Turnori is quite different from all the rest.

The species is dedicated to Mr. Lneien M. Tmmer, to whose diligence the Musenm is indebted for large and valuable additions to its collections from Alaska.

[^0]Description.-The greatest height of the body is contained 8 dimes, and its width just behind the pectorals 9 times, in total length. The greatest circumference equals 3 times the height. The height at the ventrals equals the width immediately behind the pectorals. The height at the rent is contained $10 \frac{1}{2}$ times in total length, and the width at the same place is contained $4 \frac{1}{3}$ times in the leugth of the head.

The head is depressed; its greatest width equals $\frac{3}{4}$ of its length, which is contained $4_{3}^{1}$ times in total length. The distance from the tip of the snout to the nape is nearly equal to the greatest width of the head, or $\frac{1}{6}$ of total length. The distance between the eyes equals $\frac{1}{4}$ of the distance from the snont to the nape. The nostrils are tubular, nearly as far apart as the eyes, and slightly further from the eyes than from each other. The length of the upper jaw equals half the length of the head, the maxilla extending to the rertical throngh the hind margin of the orbit. The mandible is twice as long as the snont, and extends beyond the vertical throngh the hind margin of the orbit. On the intermaxillaries there is one finll series of teeth, and in font of these a few smaller teeth form an outer imperfect series. There is a naked space at the symphysis, and the first tooth on each side of this is larger than all the rest. There is one complete series on the mandible, and in front of it, abont the symphysis, are two irregular short series. A few teeth are in a chaster on the head of the voner. The palatines have a short single series. All of the teeth are slender, slightly recurved, and a little worn at the points. The distance from the snont to the orbit is twice the length of the rentral, equals the length of the longest dorsal ray, and $\frac{1}{3}$ of the distance of the rentral from the snont. The long diameter of the eye is contaned 9 times in the length of the head.

The distance from the tip of the snont to the beginning of the dorsal is $\frac{1}{4}$ of the total length. The length of the first dorsal ray is contained 5 times, and of the longest $3_{7}^{2}$ times in the length of the head.

The distance from the tip of the snout to the begiming of the anal is slightly more than $\frac{1}{2}$ of the total length; the rent is in the mialdle of the total length, immediately behind the thind cross-band and under the 21 st ray of the dorsal; the distance from the origin of the rentrals to the rent equals twice the length of the pectoral. The first anal ray is contained $5 \frac{3}{4}$ times in the length of the heand, and the longest, $4 \frac{1}{5}$ times.

The extended pectoral reaches the 10th ray of the dorsal; the distance of its base from the snont is contained $4 \frac{1}{6}$ times, and its length $6 \frac{2}{3}$ times in the total length.

The distance of the rentral from the tip of the snont is 3 times the distance from the snont to the orbit, and is contained $4 \frac{4}{\overline{3}}$ thenes in the total length. The length of the veutrals is contained $6 \frac{4}{7}$ times in the length of the head, and twice in the distance from the tip of the snont to the orbit; they extend to a vertical throngh the anterior margin or the base of the pectoral.

Radial formma: B. VI; D. (including half of candal) 85 ; A. (inelnding half of caudal) 67 ; P. 18; V. 3.

Color: The ground-color is light umber; abolomen gravish brown: lower parts of head cream. A band of creant on the anal extends from the origin of the rays to abont their middle. A erescentice band of the same color, mottled with momer, crosses the nape, and contimues behimd the pectorals, blending there with the first lateral band. A streak of tream, more or less interrupted by umber, exteuds backwards from the eye across the cheek, almost to the end of the operculnm. Ten bands of crean-color, bordered with dark umber, start from the tips of the dorsal mys and extend into the lower half of the bods, becoming wider and somewhat broken below the middle of the body. These cross-bands are located at the second, ninth, seventeenth, twenty-fifth, thirty-fomth. forty-thirl, fifty-second, sixtieth, sixty-eighth, and seventy-seventh dorsal rays. There is, besides, a very indistinct caudal tip of cream-color

In the table of proportions appended, a statement appears as to how many times the length of different parts of the body is contained in the total length, or in the length of the head, when that seems more conrenient.

Table of Measurements.


Table of Proportions of North American Species.


* Exceeds twice its breadth.
$\dagger$ Upper part of corsal and all of anal naked; the rest sealy.


## DESCRIPTIQNS DF NEW SPECIES ANR IAACES OT AMERICAN BIRDS, INCLUDING A SYNOPSES OF TEIE GENUS TYRANNUS, CUVIER.

## By ReOBEIE'G IEIDGEVAY.

## I.-Synopsis of the Gemus Tyramus, Curier.

## Genus TYRANNUS, Curier.

Tyrannus, "Cuv., Leçons Anat. Comp. 1799, 1800" (Agassiz). Type, Lanins tyrannus, Limu. ?-Vieill., Ois. Am. Sept. I, 1807, 73.-Swans., Classif. B. II, 1837, $225 .-(\Longrightarrow)$ Bard, B. N. Am. $1858,170 .-(>)$ Caban. \& Helne, Mus. Hein. II, 1859, 79 (restricted to T. carolinensis; includes also Pitangus caudifasciatus!). $(\Longrightarrow)$ Grayr, Hand-list, I, 1869, 364.-( $\Rightarrow$ B. B. \& R., Hist. N. Am. B. II, 1074, 314.
"Drymonax, Gloger, $18: 7$ " (Cabanis \& Meine).
"Myiarehus," Burm. 1850 " (nec Caban. 1844).


[^0]:    * A Preliminary Catalogne of the Reptiles, Fishes and Leptocardians of the Bermudas, with Descriptions of four Species of Fishes believed to be new. <Amer. Jomn. Sci. and Arts, xiv, 1877, (Oct.), pp. 289-298, (p. 295).
    † Amer. Journ. Sci. and Arts, vii, 1874, (Ang.), p. 123.
    $\ddagger$ Catajogne of the Fishes of the Bermulas, p. 82.
    § Enumeratio Piscium Cnbensium, . . . Madrid, 1875-76. p, 55.

